WHAT IS CLAIMED IS:

- 1. An iris recognition camera, comprising:
 - a driving barrel configured to support a lens;
- a moving unit configured to reciprocatingly move the driving barrel to perform both focus and zoom operations; and
 - a position sensor configured to detect a position of the driving barrel.
- 2. The iris recognition sensor according to claim 1, wherein the moving unit comprises:
 - a motor;
 - a lead screw connected to the motor at one end; and
 - a rack coupled to an outer circumference of the lead screw.
- 3. The iris recognition camera according to claim 2, wherein the motor comprises a step motor.
- 4. The iris recognition camera according to claim 1, wherein the driving barrel is provided at one side with a detecting portion configured to communicate with the position sensor so that the position sensor detects a position of the driving barrel.
- 5. The iris recognition camera according to claim 1, wherein the lens comprises a wide-angle lens.

- 6. The iris recognition camera according to claim 5, wherein the wide-angle lens has a focusing distance of about 11.8 \pm 1 mm.
- 7. The iris recognition camera according to claim 1, further comprising one or more guide bars configured to guide the driving barrel during reciprocating movement.
- 8. The iris recognition camera according to claim 7, wherein the one or more guide bars comprises a pair of guide bars, respectively, positioned on opposite sides of the driving barrel.
- 9. The iris recognition camera according to claim 1, wherein the position sensor is positioned behind the lens.
- 10. The iris recognition camera according to claim 1, wherein the lens has an image pickup distance range of about 20-70 cm.
- 11. The iris recognition camera according to claim 1, wherein the position sensor comprises one of an optical sensor and a contact sensor.
 - 12. An iris recognition system comprising the iris recognition camera of claim 1.

- 13. An iris recognition camera, comprising:
 - a step motor configured to provide an accurate rotating amount;
- a driving barrel configured to be reciprocated by a rotational force transmitted from the step motor; and

a wide-angle lens positioned on the driving barrel and configured to allow a user's image to be captured by moving the driving barrel to an appropriate image pickup location for the user.

- 14. The camera according to claim 13, wherein the wide-angle lens has an image pickup distance range of about 20-70 cm.
- 15. The iris recognition camera according to claim 13, further comprising an image pickup device configured to perform the image pickup using light refracted by the wide-angle lens.
 - 16. An iris recognition system comprising the iris recognition camera of claim 13.
 - 17. An iris recognition camera, comprising:
 - a driving motor;
- a wide-angle lens configured to be reciprocated by power transmitted from the driving motor and having a focusing distance of about 11.8 \pm 1 mm; and

an image pickup device configured to convert light refracted by the wide-angle lens into an image of a user's iris.

- 18. The iris recognition camera according to claim 17, wherein an image pickup range of the wide-angle lens is about 20-70 cm.
 - 19. An iris recognition system comprising the iris recognition camera of claim 17.
 - 20. A method of operation for an iris recognition camera, comprising: detecting a user;

moving a camera lens to an initial position detected by a position sensor after the position sensor detects the user;

moving the camera lens to an image pickup location where a user's iris can be captured; and

performing the image pickup using an image pickup device.

- 21. The method according to claim 20, wherein the camera lens comprises a wide-angle lens.
- 22. The method according to claim 20, wherein the image pickup device comprises a charge-coupled device.

- 23. The method according to claim 20, wherein the iris recognition camera comprises a driving source for moving the lens in the form of a step motor.
- 24. The method according to claim 20, wherein the iris recognition camera further comprises a power transmission configured to transmit power for moving the camera lens.
- 25. The method according to claim 24, wherein the power transmission device includes a lead screw configured to be rotated by power from a driving source, and rack screw-coupled to an outer circumference of lead screw.
 - 26. A method of operation for an iris recognition camera, comprising:
 turning on power of an iris recognition camera;
 moving a lens to an initial position;
 detecting a user;
- capturing an iris image of the user by moving the lens to a location where the iris image is focused; and

storing a current location of the lens.

27. The method according to claim 26, wherein the initial position is detected by a position sensor.

28. The method according to claim 26, further comprising:

comparing, when a new user is detected, the current location of the lens with an appropriate location for the lens for the new user;

calculating a difference between the current location and the appropriate location; and

moving the lens by the calculated difference to perform the image pickup.

29. The method according to claim 26, wherein the lens comprises a wide-angle lens.